

Job Aid

Oceanic and Remote Operations, B036

Operation Specification/Management Specification/Letter of Authorization B036

This job aid was design to correspond with an optional online application, AC 90-105(), and Order 8900.1. If the applicant carefully follows your instructions during the pre-application meeting, AC 90-105(), and completes the items in the online application, the overall process should be streamlined and efficient.

Begin



Version: 7.16
Updated Quarterly



Operator Application to Conduct Oceanic and Remote Operations

Operation Specification / Management Specification / Letter of Authorization B036

Instructions

This job aid was developed by the Federal Aviation Administration (FAA) Flight Technologies and Procedures Division (AFS-400) to help operators prepare, and inspectors evaluate, applications for RNP 2, RNP 4, and RNP 10 operational approval. These optional aids are **written to supplement, not replace** other official information provided to inspectors. Refer to operational approval requirements and processes contained in FAA Order 8900.1 Flight Standards Information Management System.

FAA Order 8900.1, Volume 1, Chapter 1 The General Process for Approval or Acceptance of Air Operator Applications describes the general steps FAA inspectors will take in the operational approval process. While each situation will be different, the general steps described in Volume 1, Chapter 1 will take place to an extent dictated by the circumstances.

The over arching guidance for RNP 2, RNP 4, and RNP 10 approval is provided in [Advisory Circular \(AC\) 90-105\(\)](#), *Approval Guidance for RNP Operations and Barometric Vertical Navigation in the U.S. National Airspace System and in Oceanic and Remote Continental Airspace*. [AC 90-105\(\)](#) should be considered the "source document" for RNP approvals. For airworthiness guidance, refer to [AC 20-138\(\)](#), *Airworthiness Approval of Positioning and Navigation Systems*.

Operators are encouraged to contact their Flight Standards District Office (FSDO), or Certificate Management Office (CMO), as applicable, before beginning work on an application. An optional online application is available on the [AFS-470 website, Oceanic and Remote Airspace \(Special Areas of Operation\)](#). Inspectors are encouraged to review the application during the pre-application meeting/teleconference.

The intent of the online application is to streamline the application process with an organized method of assembling the required information and thereby making the overall process more efficient for both the operator and the FAA. Until the Operations Authorization Portal System (OAPS) system is fully operational, this tool should be considered as an option.

We would appreciate any feedback to improve the job aid and/or the online application. Contact us, AFS-470 by calling: (202) 267-4623



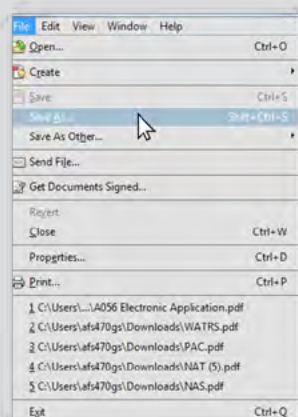
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Using the Online Application

This process should start with the initial contact by the applicant followed by a pre-application meeting or teleconference. If your applicant uses the online application, they should respond to each item after the initial meeting/teleconference. Please review the online application with the applicant. If you desire additional documentation other than what is requested on the application, attachment 6 provides for this information plus any other items that may be unique to an operator may be disclosed in this attachment.

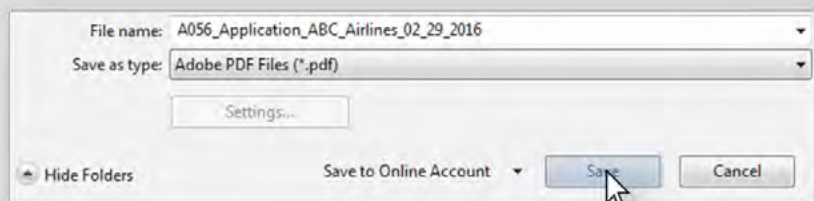
You should receive the online application and attachments in a PDF format. The applicant should use the file naming convention as described below.



1

Select "Save As.." under File Menu.

2



Use the following naming convention with underlines “_” as shown:

B036_Application_Your_Company/Name_Date(XX_XX_XXXX)_Version_Number(VX)

Example: B036_Application_ABCAirlines_02_29_2016_V2

One file is preferred (use Adobe Acrobat to combine application and attachment as one file). However, if unable to combine all files into one, then send separate files with each attachment using the following naming convention: B036_Appendix_Number_Your_Company/Name_Date(XX_XX_XXXX)
Example: B036_Appendix 2_ABCAirlines_02_29_2016_V1.

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Operation Specification / Management Specification / Letter of Authorization B036

Operator Information:

Date: *mm/dd/yyyy*
Company/Name: Identifier:
14 CFR Part:
Street Address: Suite:
City: State: Zip Code:
Planned Date for B036 Operations: *mm/dd/yyyy*

Contact Information: *Responsible Person for Oceanic and Remote Operations*

POC First Name:
POC Last Name:
Office Phone:
Cell Phone:
Email:



Inspector Notes:



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Operation Specification / Management Specification / Letter of Authorization B036

Pre-Application Review Items and Requirement Checklist

1. Overview of Requirements, Authorization Table, and Bundling

Review the B036 OpSpec/MSpec/LOA requirements and the B036 authorization table. Include a discussion of “bundling options” ([See AC 90-105\(\)](#)) within the table and also other OpSpecs/MSpecs/LOA as applicable.

2. Online Resources to Streamline the Application Process

[AFS-470 Oceanic and Remote Airspace website](#) including the [B036 Online Application](#).

3. Scope and Areas of Operation

If applicant is conducting international operations, review the requirements needed for LOA/MSpec/OpSpec [B036](#), [B039](#), [B046](#), [B050](#) ([B050 not required for Part 91 Operators](#)) and any other applicable “B” paragraphs.

4. Determination of Whether to Require Validation Testing

Validation testing if required (See [Order 8900.1, Vol 3, Chapter 29, Section 8](#) and for Part 91, go to [Vol 4, Chapter 12, Section 1](#)) .

5. Documentation

Emphasize to the applicant to provide only the necessary documentation to show compliance. Typically only a page or paragraph from a source document is all that is necessary to show compliance. Encourage the use of highlights, outlines, tables and/or hyperlinks to aid in showing compliance.

6. Date of Intended Oceanic and Remote Operation

Approximate date the applicant intends to commence oceanic and/or remote operations with M-LRNS (See Letter of Request of the B036 within the online Application).

7. RNP Documentation

Statement of Compliance for oceanic and remote RNP 2, RNP 4, or RNP 10 in the Airplane Flight Manual (AFM), Airplane Flight Manual Supplement (AFMS), pilots operating handbook (POH), or avionics operating manual. The applicant may obtain this statement from the manufacturer.



Operator Application to Conduct Oceanic and Remote Operations

Operation Specification / Management Specification / Letter of Authorization B036

8. Documentation of Long-Range Navigation Systems (LRNS)

Documentation of LRNS installed and operational on the aircraft. The number and type of required LRNS depends on the following RNP values:

- **RNP 2:** At least 2 Independent GNSS.
- **RNP 4:** At least 2 LRNS with one of those systems a GNSS as either stand-alone or as one of the sensors in a multisensor system.
- **RNP 10:** At least 2 LRNS in any combination of:
 - INS approved for oceanic and remote navigation.
 - FMC/navigation sensor combination (or equivalent); and
 - GNSS navigation system approved for oceanic and remote navigation

Note 1: If LRNS includes an inertial type system, provide documentation (page/paragraph) on the inertial time limit from the aircraft's airworthiness documentation (i.e. AFM/AFMS).

Note 2: Aircraft previously certified and documented under FAA Order 8400.33 remain valid which allowed for non-GNSS navigation solutions

9. Documented LRNS Maintenance and MEL/MMEL

- Documentation on established maintenance procedures for all LRNS intended for use in oceanic and remote airspace.
- MEL/MMEL (page/paragraph(s)) that specifies dispatch conditions for oceanic and remote RNP operations.

10. Operational Documentation

The applicant must have established documented procedures for the following:

Oceanic and remote flight planning and master flight plan

Notices to Airman (NOTAMS)

Preflight of LRNS

Fault Detection and Exclusion (FDE) Prediction

Database management

Route confirmation and waypoint entry procedures

Navigation procedures including procedures for cross-checking and degradation

Lateral and vertical deviation monitoring/compliance

Checklist(s) for oceanic and remote navigation systems and operations

Confirming the correct RNP value for the airspace requirements is set

Procedures/contingencies for navigation equipment failure



Operator Application to Conduct Oceanic and Remote Operations

Operation Specification / Management Specification / Letter of Authorization B036

Emergency and contingency procedures

Oceanic checklist

Master time source.

Clearance-Flight Information Region (FIR) differences.

Navigation accuracy check.

RVSM checks.

Approaching, overhead, and post-position waypoint checks.

Position report—estimated time of arrival (ETA) tolerance.

11. Training Documentation

The applicant must establish adequate aircrew training in the use of LRNS equipment and oceanic and remote procedures by providing a curriculum documenting a program that includes the use of long-range navigation (LRN) equipment and procedures. Training curricula should be in accordance with [AC 90-105\(\)](#), §§ [91.3](#), [91.703\(a\)\(1\)](#) and (2) and ICAO [Annex 2](#) (Rules of the Air), paragraph 2.3.2 (Pre-flight action) crews are responsible for policies and procedures in areas of operations where flights are conducted.

Note: Part 91 operators should be knowledgeable with the procedures and operations associated with the use of Required Navigation Performance (RNP) systems and are not required to have a training program or curricula.

12. Document Review:

The following documents must be reviewed by operators, pilots, and dispatchers:

FAA Documents

[AC 90-105\(\), Approval Guidance for RNP Operations and Barometric Vertical Navigation in the U.S. National Airspace System and in Oceanic and Remote Continental Airspace](#)

[AC 20-138\(\), Airworthiness Approval of Positioning and Navigation Systems](#)

[Aeronautical Information Manual \(AIM\)](#)

[U.S. Aeronautical Information Publication \(AIP\)](#)

[AC 91-70\(\), Oceanic and Remote Airspace Operations](#)

[Notices to Airman \(NOTAM\) \(U.S. Link\)](#)

[FAA chart supplements](#)



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Operation Specification / Management Specification / Letter of Authorization B036

FAA Online Guides *(Supplemental aids with useful organized links)* **Download rather than Open.**

[North Atlantic Resource Guide for U.S. Operators](#)

[Pacific Resource Guide for U.S. Operators](#)

[National Airspace System Resource Guide for U.S. Operators](#)

[West Atlantic, Gulf of Mexico, Caribbean Resource Guide for U.S. Operators](#)

ICAO Documents

[ICAO Doc 7030, Regional Supplementary Procedures](#)

[ICAO Doc 9613, Performance-Based Navigation Manual](#)

[ICAO Doc 4444, Procedures for Air Navigation Services—ATM \(PANS-ATM\)](#)

[ICAO Annex 2, Rules of the Air](#)

[ICAO Annex 6, Operation of Aircraft \(Parts I, II, III as applicable\)](#)

[NAT Doc 007, North Atlantic Operations and Airspace Manual](#)

[NAT OPS Bulletin, 001, Sample Oceanic Checklists](#)

[NAT OPS Bulletin, 002, Oceanic Errors Safety Bulletin \(OESB\)](#)

13. Sample Flight Plan:

The applicant should submit a sample flight plan ([FAA form 7233-4, International Flight Plan](#)) for an oceanic crossing using RNP 2, RNP 4, or RNP 10 as applicable. Also, include a crew operational flight plan (OFP).

Refer to the following:

- [FAA ICAO Flight Plan Quick Guide](#)
- [AIM](#) (Latest edition, see Section 5)
- [FAA Form 7233-4, International Flight Plan](#)